MIC/TEG/RED-205-70 9 September 1970

MENCE AND DAY TO	R;	Chief, Production Services Group, MFIC
THEORY	Ĭ	Chief, Technical Services Group, MFIC
SIBJECT		AND and Materials Handling Requirements
	1	Dated 18 March 1970

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I. In response to the referenced paper, which furnished background information relating to your information and materials handling needs, THE PRED has made a preliminary analysis of the situation. As a result of evaluating the referenced paper, a series of discussions with supervisory personnel in each of the Reso Branches, and our own understanding of the Information needs the Center, the following discussion represents our waderstanding of the current situation within RERD/PSG and what action we propose. Specifically, our objective is twofold; (1) To improve the timeliness and effectiveness of imputing, updating, storing, retrieving, and handling non-magnetically stored information, (2) to make cost effective use of automation and ADF services while holding manpower, funding, and space requirements within available resources.

A. Forms of Information to Be Considered -- Because of their interships, we real that all of the types of information (or materials) addressed below must be considered for an effective analy-als of the problem. Additionally, other information handling prococoss, such as the IIS, must be reviewed to eliminate potential everlaps, but are not addressed as a direct part of the approach described herein.

- 1. Ground Coverage Photography.
- . Foll-Those forms of mission coverage photography normally stored and handled in roll form.
- b. Frame/chip-a single frame or less of mission photography extracted from a roll for handling purposes.
- c. Ground -- single or small series of frames of photography obtained from hand-held cameras as opposed to recommissance mission coverage.

CRAW! Declass Review by NIMA/DOD

Excluded from automati

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- 2. Microform Film--Photographically recorded information west for information handling as opposed to intelligence acquiettion photography.
- 3. Classified Documents, Reports, Cables -- a variety of formul and informal publications requiring special handling.
 - a. Top Secret Codeword Publications
 - b. Cables and Informals
 - e. Men-Codeword Publications
 - b. Unclassified Publications
 - a. Broks
 - b. Periodicals
 - e. Imports
 - 5. Large Format Materials
 - a. Ground Coverage Plots
 - b. Hops & Charts
 - e. Graphics & Briefing Boards
- 6. Mission Data-that data which is not computer or magnetically stored for a near real time availability.

 - a. Target Data b. Epismeris Data
- Current Situation It is our understanding from the reference memo that considering past requirements and constraints, RARD has been shie to meet their commitments. Concern is expressed, however, as to their ability to meet future commitments without establishing more efficient operating procedures based on a of regulrements base. The following are a few comments characterising the current situation. Inclusion of comments herein is not necessarily an endorsement that significant changes are required.
 - 1. Manual Orientation -Automation and AUP support has been applied at a minimal level, even in highly repetitive functions.
 - 2. Cellection of Autonomous but Similar Operations -- Many of the operations within RARD are similar "library" or "accounts-Mility" functions but each has its own control system.

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- 3. Registry an Incomplete Function--Considerable effort devoted to registering certain classes of classified information, while little or no effort is devoted to controlling reproduction, transfer of responsibility, or destruction.
- Production and Use of Microforms and Incomplete Function—
 In presently implementing a new totally manual microform

 reter (as a replacement for the Minicard System) based on the

 reternal dimensions of a standard h x 6" microfiche, but without

 the internal format control of the Government Standard Microfiche.

 Additionally, the Information Branch is ordering, when ever possi
 Minicard Standard microfiche in lieu of hard copy. The

 indexing, storage, and retrieval, dissemination, reproduction and

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 sected overall use of these and other types of microforms in use

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 within the Center as a whole. In brief, the requirements for Micro-
- At this time there does not seem to be any coordinated effort for the procurement of optimal microform viewing, printing, or suppoduction equipment within the Center. Each Division or Group appears to be striking out on their own as to what type of equipment to buy.
- 6. Little Room Available for Expansion Brought on by New Systems of Requirements NAME, like much of the remainder of the building is feeling the space squeeze. While they currently have adequate space, expanded storage, requirements will be difficult to handle.

C. Major Requirements—Based on an analysis of the referenced paper and our selftional preliminary investigations, we feel we can example the stated BARD needs into the following ten requirements extegories for further consideration.

1. Automated Film Accountability System
2. Automated Registry (Accountability) System

3. Improved Library & Reference System
4. Improved Film Coverage, Index & Search Capability

5. Integrated Microfilm System

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6. Improved Target File Maintenance & Handling

7. Improved Film Handling 8. Improved Map Handling 9. Improved Reference Material Handling

10. Improved "Mail" Handling

- D. Major Functional Areas -- All of above ten requirements fall within three functional fields or areas of specialization. Each of the branches or operations within MAND are affected to varying extents by these functional areas, however, each unit has responded somewhat differently accounting for a variety of approaches to similar problems. Prese functional areas are:
 - 1. Reference, Index & Search -- a problem of knowing the content of your inventory and how to locate or index it in an efficient memmer.
 - 2. Record & Material Accountability--primarily an inventory ecetrol situation.
 - 3. Materials Storage, Retrieval, and Handling -- the physical storage and handling problem of your inventory.
- E. Major Considerations -- At this time we have been unable to analyze and validate specific problem areas or requirements where we can recommend specific Rad developmental programs. There are several areas where Ad-Moc solutions are possible, however, without the mecessary considerations and planning they may be ineffective in the long run. This is not to say that there are no problem areas in R&RD or that these operations can not be effectively improved through R&D, but only that we were not able to adequately identify and define them to recommend developmental action. Some of the major considerations that must be studied in depth in arriving at either developmental or new operational concept plans are as follows:
 - 1. Heed and Use of Information-To what extent are the current information and handling services of REED being used and what information needs may exist that are not being satisfied.
 - 2. Extent of Automation-The need for expanded automation ANY support must be explicit.
 - 3. Automation Costs versus Benefits -- Before applying Automation or ADP support, we must be sure that it will be cost effective, from both the dollar or manpower expenditure.

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- 4. Best Handling Media -- Which storage and handling media is meet effective for a given operation; i.e., hard copy, microfilm, essenter storage (either real time or batch), etc.
- 5. Equipment Improvements -- what functions or services can be improved through improvements in equipment or addition of new types of equipment.
- 6. Procedural & Technique Improvements -- what functions or services can be improved through technique and procedural changes.
- II. There are three basic alternative approaches to providing R&D support in response to the referenced memorandum.
 - A. Ad-Hoc Improvements -- selecting a few of the most critical problem areas and implementing individual correction plans.

1. Advantages

- a. Quickest Response
- b. Exmest Cost
- e. Low Mak
- d. Will Bequire Pewest Changes

2. Disadvantages

- a. Current Problem Areas May Change
- Low Pay-Off in Terms of Future
 Minimal Efficiency Improvements
- 4. To Provision for Future Improvements
- 2. Integrated System-studying and establishing requirements followed by the development of a long range plan for the instrumentation and operation of MERD.

1. Advantages

- a. Will provide for long range improvements
- b. Potentially high long term efficiency

2. Disadventages

- a. Results will not be available for several years
- b. Short term approaches will not be fully integrated
- c. Petentially high long range cost

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C. Mybrid System Development of a long range plan based on a firm estimate of future requirements, while addressing current problems on a quick fix basis, as an integrated approach.

1. Advantages

- a. Long Range Program with Quick-Fix Emphasis
- b. Hodellar Approach
- c. Highest Long Term Efficiency

2. Disadvantages

- a. Potentially high long range cost
- w conducting a contractual study program to determine cost effective improvements that can be made in the currently non-computerized information handling processes within NPIC, and to develop a modular plan for improving the information handling and control processes within current and projected manpower and cost constraints.
- W. Program control of the above recommended project would be maintened via the appointment of a HED technical program manager who would maintain working level coordination and liaison with REED and other affected components, while maintaining technical supervision and monitorally of the selected contractor. The contract proposal solicitations and selection will be based on detailed program objectives and proposal evaluations performed in conjunction with PEG designated personnel.

 Contractor selection for solicitation of proposals will be based on experience in the fields of Library and Information Sciences. It is anticipated that the project will be conducted as a two phase project taking experience in the fields to complete. The first phase will address the experience in the development of the long range plan.
- Y. Your support and concurrence in the above recommendation is essential in achieving an effective program to improve the effectiveness of MAR. If you have any suggestions as to how to improve or change the recommendations, please feel free to call on me. In order to maintain our schedule it is necessary for us to brief the Executive Director concerning our recommendations by the 17th of September and would appreciate

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pour assistance in makin and MARD personnel 15 September 1970.	g it a joint presentation. This means that 25) should have a dry run briefing for us by
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